

INTERNATIONAL SEARCH REPORT

PCT/IB2004/003916

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B7/0065 G11C13/04 G03H1/04 G03H1/10 G03H1/28
G06F17/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B G11C G03H G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 306 732 A (OPTWARE CORPORATION) 2 May 2003 (2003-05-02)	1, 3-6, 9
Y	column 11 - column 13 -----	2, 7, 8
Y	EP 1 324 322 A (OPTWARE CORPORATION) 2 July 2003 (2003-07-02) paragraphs '0043!, '0050!, '0077! -----	2
Y	US 3 890 035 A (TAKEDA ET AL) 17 June 1975 (1975-06-17) column 4 -----	2
Y	FR 2 772 938 A (THOMSON CSF) 25 June 1999 (1999-06-25) page 6; figure 4 -----	2
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

25 February 2005

Date of mailing of the international search report

08/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Damp, S

INTERNATIONAL SEARCH REPORT

PCT/IB2004/003916

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 017, no. 498 (P-1609), 8 September 1993 (1993-09-08) & JP 05 127139 A (SEIKO EPSON CORP), 25 May 1993 (1993-05-25) abstract -----	2
Y	WO 01/50418 A (UT-BATTELLE, LLC) 12 July 2001 (2001-07-12) page 4 -----	7,8
Y	US 4 768 881 A (JUEPTNER ET AL) 6 September 1988 (1988-09-06) columns 1,4 -----	7,8
Y	US 3 819 248 A (TAKEDA Y,JA ET AL) 25 June 1974 (1974-06-25) column 3 -----	2
A	WO 03/058352 A (MAXSOFT CO., LTD; KIM, UN-SU) 17 July 2003 (2003-07-17) the whole document -----	1-9
A	EP 0 632 348 A (INTERNATIONAL BUSINESS MACHINES CORPORATION) 4 January 1995 (1995-01-04) the whole document -----	1-9

INTERNATIONAL SEARCH REPORT

PCT/IB2004/003916

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1306732	A	02-05-2003	JP 2002083431 A AU 7460001 A CA 2414907 A1 EP 1306732 A1 US 2004100892 A1 CN 1451105 T WO 0203145 A1	22-03-2002 14-01-2002 31-12-2002 02-05-2003 27-05-2004 22-10-2003 10-01-2002
EP 1324322	A	02-07-2003	JP 2002123949 A AU 6786601 A EP 1324322 A1 US 2004042374 A1 CN 1446355 T WO 0215176 A1	26-04-2002 25-02-2002 02-07-2003 04-03-2004 01-10-2003 21-02-2002
US 3890035	A	17-06-1975	JP 48038745 A	07-06-1973
FR 2772938	A	25-06-1999	FR 2772938 A1	25-06-1999
JP 05127139	A	25-05-1993	JP 3141440 B2 DE 69128103 D1 DE 69128103 T2 EP 0451681 A2 JP 4226426 A JP 3257556 B2 JP 2001194626 A US 5497254 A US 5682214 A	05-03-2001 11-12-1997 02-04-1998 16-10-1991 17-08-1992 18-02-2002 19-07-2001 05-03-1996 28-10-1997
WO 0150418	A	12-07-2001	AU 2773701 A WO 0150418 A2	16-07-2001 12-07-2001
US 4768881	A	06-09-1988	NONE	
US 3819248	A	25-06-1974	JP 48038164 A JP 51023187 B DE 2245398 A1	05-06-1973 15-07-1976 29-03-1973
WO 03058352	A	17-07-2003	KR 2002028164 A WO 03058352 A1 AU 2002219682 A1	16-04-2002 17-07-2003 24-07-2003
EP 0632348	A	04-01-1995	EP 0632348 A1 JP 7020765 A	04-01-1995 24-01-1995